

## ABSTRACT

1           To access control without changing a presently used version of a system application  
2           protocol, an operator enters an ID and a password of the operator for user authentication, and, if  
3           the user authentication is successful, the operator will have access to an application layer of a  
4           system managed using either TCP/IP or UDP/IP. The application layer is adapted to be accessed  
5           using a security module to confirm whether or not an IP address of a terminal used by the operator  
6           is a preset IP address. In a network operating a version of a network management interface not  
7           equipped with a security function, the security deficiency of the system is alleviated by simply  
8           adding the security module without effecting a version upgrade process.  
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